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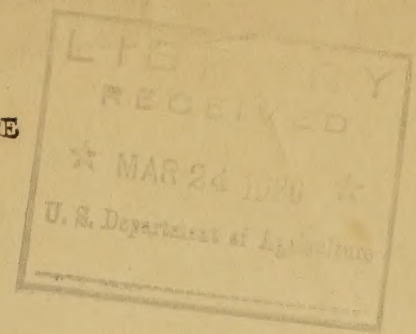




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UNITED STATES DEPARTMENT OF AGRICULTURE

OFFICE OF AGRICULTURAL INSTRUCTION  
Washington, D. C.



LEGUMES USED IN SOIL IMPROVEMENT.

VELVET BEANS are annual legumes. One or more varieties can be grown successfully in nearly all parts of the Cotton Belt. They are usually planted with corn and used for pasture.

GREY WINTER OR AUSTRIAN WINTER PEAS are field peas which are of most value on the Atlantic Coastal Plain and the Pacific Slope in Washington and Oregon as a winter-cover and green-manure crop.

YELLOW ANNUAL CLOVER OR MELILOTUS INDICA is grown chiefly in the South and Southwest as a green manure crop. It is a noxious weed in wheat fields in southern California and Arizona.

WHITE SWEET CLOVER, *Melilotus alba*, is a biennial used for forage and soil improvement, over a wider territory than any other legume. Lime is necessary.

RED CLOVER is the most important leguminous forage and soil-improving crop in the northeastern quarter of the United States. Drainage and a reasonably sweet soil are essential.

CRIMSON CLOVER is a winter annual, widely cultivated in the Middle Atlantic and Southeastern States for forage and as a cover and green-manure crop. It will grow on poorer soils than most clovers.

SOY BEANS are used for forage, oil, meal and human food. They grow in about the same regions where corn grows. Their fertilizing value compares favorably with that of other legumes.

COW PEAS are used more in soil improvement than any other legume because they grow and succeed under such a diversity of conditions. They are grown extensively in southern States.

BUR CLOVER is a winter annual used in the South as a forage cover and green-manure crop.

ALFALFA is a perennial legume. It succeeds best in a dry climate where water is available for irrigation and thrives only on good soils.

WHITE CLOVER is grown in pastures mixed with grasses and in this use plays an important role in soil improvement.

LESPEDEZA, OR JAPAN CLOVER, is a summer annual forage crop of the southeastern United States. It does quite well on sour soils.

HAIRY VETCH is a winter legume grown in the eastern half of the United States where red clover fails or where crimson clover is not a success. It makes an excellent feed, cover and green-manure crop.



DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY

WASHINGTON, D. C.

January 1, 1911

TO THE SECRETARY OF AGRICULTURE, DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

FROM THE SECRETARY OF AGRICULTURE, DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

SUBJECT: [Illegible]

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